

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009243 A1

(51) International Patent Classification⁷: **A61B 6/06**,
G21K 1/02

(21) International Application Number:
PCT/IB2004/051249

(22) International Filing Date: 19 July 2004 (19.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03102349.2 30 July 2003 (30.07.2003) EP

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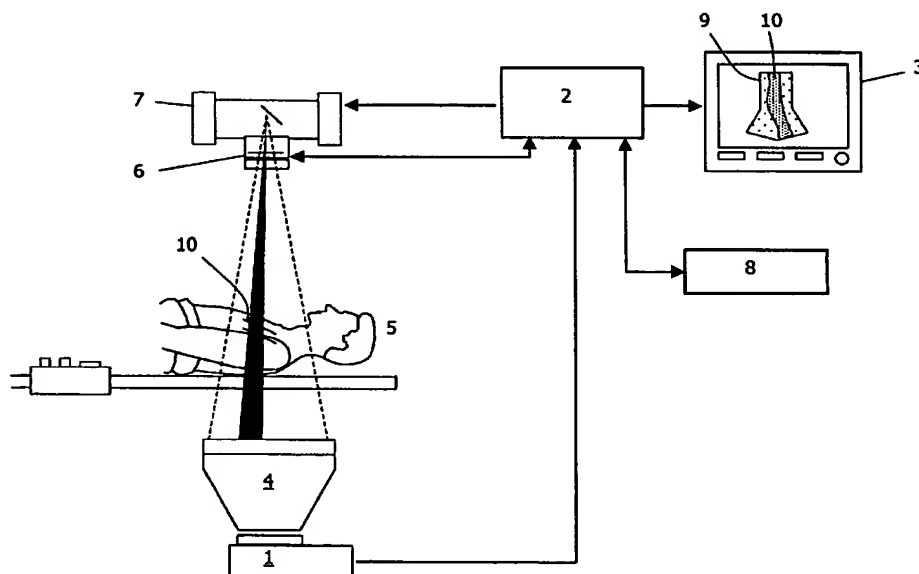
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
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TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: X-RAY UNIT HAVING AN AUTOMATICALLY ADJUSTABLE COLLIMATOR



(57) Abstract: The invention relates to a method and a unit for automatically adjusting a collimator (6). In this connection, a region (9) of interest inside the body is determined in an application-specific way from an analysis of first X-ray pictures, and the collimator (6) is then adjusted thereon. The region (9) of interest can, in particular, be chosen to be large enough for the irradiation field to cover all those positions of an organ (10) of interest that occur as a result of heartbeat and/or respiration. Preferably, a movement estimate is undertaken during a current examination in order to be able to readjust the collimator (6) if necessary. If the region of interest cannot be localized, the collimator (6) is opened to a standard adjustment.

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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— *with international search report*